



PPPPPPPP	AAAAAA	GGGGGGGG	MM	MM	RRRRRRRR	GGGGGGGG			
PPPPPPPP	AAAAAA	GGGGGGGG	MM	MM	RRRRRRRR	GGGGGGGG			
PP	PP	AA	AA	GG	MMMM	RR	RR	GG	
PP	PP	AA	AA	GG	MMMM	RR	RR	GG	
PP	PP	AA	AA	GG	MM	MM	RR	RR	GG
PP	PP	AA	AA	GG	MM	MM	RR	RR	GG
PPPPPPPP	AA	AA	GG	MM	MM	RRRRRRRR	GG		
PPPPPPPP	AA	AA	GG	MM	MM	RRRRRRRR	GG		
PP	AAAAAA	GG	GGGGGG	MM	MM	RR	RR	GG	GGGGGG
PP	AAAAAA	GG	GGGGGG	MM	MM	RR	RR	GG	GGGGGG
PP	AA	AA	GG	GG	MM	RR	RR	GG	GG
PP	AA	AA	GG	GG	MM	RR	RR	GG	GG
PP	AA	AA	GGGGGG	MM	MM	RR	RR	GGGGGG	
PP	AA	AA	GGGGGG	MM	MM	RR	RR	GGGGGG	

```
1 0001 0 MODULE PAGMRG (IDENT = 'V04-000'  
2 0002 0 XBLISS32[,ADDRESSING_MODE(INTERNAL=LONG_RELATIVE,NONEXTERNAL=LONG_RELATIVE)]  
3 0003 0 ) =  
4 0004 1 BEGIN  
5 0005 1 *****  
6 0006 1 *****  
7 0007 1 *  
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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25 0025 1 *  
26 0026 1 *  
27 0027 1 *****  
28 0028 1 *  
29 0029 1 *  
30 0030 1 **  
31 0031 1 * FACILITY:  
32 0032 1 * DSR (Digital Standard RUNOFF) /DSRPLUS DSRINDEX/INDEX Utility  
33 0033 1 *  
34 0034 1 * ABSTRACT: Compares page numbers to see if they can be merged.  
35 0035 1 *  
36 0036 1 * ENVIRONMENT: Transportable  
37 0037 1 *  
38 0038 1 * AUTHOR: R. W. Friday  
39 0039 1 *  
40 0040 1 * CREATION DATE: May, 1979  
41 0041 1 *  
42 0042 1 * MODIFIED BY:  
43 0043 1 * 002 JPK00024 23-May-1983  
44 0044 1 * Modified lowercasing algorithm in PERMUTE. Now lowercase only  
45 0045 1 * if word contains only 1 letter or if second letter in word is  
46 0046 1 * lowercase. Picked up modules PAGMRG and POOL from DSR/DSRPLUS  
47 0047 1 * since they are no longer used by DSR/DSRPLUS.  
48 0048 1 *  
49 0049 1 *--  
50 0050 1 *  
51 0051 1 *  
52 0052 1 * TABLE OF CONTENTS  
53 0053 1 *  
54 0054 1 *  
55 0055 1 * FORWARD ROUTINE  
56 0056 1 * PAGMRG;  
57 0057 1 *
```

```
58 0058 1 ! INCLUDE FILES:  
59 0059 1 !  
60 0060 1 !  
61 0061 1 !  
62 0062 1 LIBRARY 'NXPORT:XPORT';  
63 0063 1 !  
64 0064 1 REQUIRE 'REQ:PAGEN';  
65 0145 1 !  
66 0146 1 !  
67 0147 1 ! MACROS:  
68 0148 1 !  
69 0149 1 ! EQUATED SYMBOLS:  
70 0150 1 !  
71 0151 1 !  
72 0152 1 ! LITERAL  
73 0153 1 ! TRUE = 1;  
74 0154 1 ! FALSE = 0;  
75 0155 1 !  
76 0156 1 !  
77 0157 1 ! OWN STORAGE:  
78 0158 1 !  
79 0159 1 !  
80 0160 1 ! EXTERNAL REFERENCES:  
81 0161 1 !  
82 0162 1 !  
83 0163 1 ! EXTERNAL ROUTINE  
84 0164 1 ! DSPEQL;
```

86 0165 1 %SBTTL 'PAGMRG -- Compare two page entries to see if they can be merged'  
87 0166 1 GLOBAL ROUTINE PAGMRG (ENTRY1, ENTRY2) =  
88 0167 1  
89 0168 1 !++  
90 0169 1 FUNCTIONAL DESCRIPTION:  
91 0170 1 Compare two page numbers to see if they are adjacent pages.  
92 0171 1  
93 0172 1  
94 0173 1  
95 0174 1  
96 0175 1 ENTRY1 and ENTRY2 are the page numbers to be compared.  
97 0176 1  
98 0177 1  
99 0178 1  
100 0179 1  
101 0180 1  
102 0181 1  
103 0182 1  
104 0183 1  
105 0184 1  
106 0185 1  
107 0186 1  
108 0187 1  
109 0188 1 TRUE - Specified page numbers are adjacent  
110 0189 1 FALSE - Specified page numbers are not adjacent  
111 0190 1  
112 0191 1  
113 0192 1  
114 0193 1  
115 0194 1  
116 0195 1 --  
117 0196 1  
118 0197 2 BEGIN  
119 0198 2  
120 0199 2  
121 0200 2 MAP  
122 0201 2 ENTRY1 : REF PAGE\_DEFINITION,  
123 0202 2 ENTRY2 : REF PAGE\_DEFINITION;  
124 0203 2  
125 0204 2 Both entries must exist  
126 0205 2  
127 0206 2 IF (.ENTRY1 EQL 0) OR (.ENTRY2 EQL 0) THEN RETURN FALSE;  
128 0207 2  
129 0208 2  
130 0209 2  
131 0210 2 By definition, you can't merge page numbers if  
132 0211 2 their display characteristics are different. Test for this.  
133 0212 2  
134 0213 2 IF NOT DSPEQL (.ENTRY1, .ENTRY2) THEN RETURN FALSE;  
135 0214 2  
136 0215 2  
137 0216 2 Section type must match  
138 0217 2  
139 0218 2 IF .ENTRY1 [SCT\_TYP] NEQ .ENTRY2 [SCT\_TYP] THEN RETURN FALSE;  
140 0219 2  
141 0220 2  
142 0221 2 Section number must always match

```

143 0222 2 IF .ENTRY1 [SCT_NUMBER] NEQ .ENTRY2 [SCT_NUMBER] THEN RETURN FALSE;
144 0223 2
145 0224 2
146 0225 2 | If sub-page exists, the page number must match and the sub-pages
147 0226 2 must differ only by 1
148 0227 2
149 0228 2 IF .ENTRY1 [SCT_SUB_PAGE] NEQ 0
150 0229 2 THEN
151 0230 3 BEGIN
152 0231 3
153 0232 3 IF .ENTRY1 [SCT_PAGE] NEQ .ENTRY2 [SCT_PAGE] THEN RETURN FALSE;
154 0233 3
155 0234 4 IF (.ENTRY1 [SCT_SUB_PAGE] NEQ .ENTRY2 [SCT_SUB_PAGE] - 1)
156 0235 4 AND (.ENTRY1 [SCT_SUB_PAGE] NEQ .ENTRY2 [SCT_SUB_PAGE])
157 0236 3 THEN
158 0237 3 RETURN FALSE;
159 0238 3
160 0239 3 RETURN TRUE
161 0240 2
162 0241 2
163 0242 2
164 0243 2 | If all else is OK, page numbers can differ only by 0 or 1
165 0244 2
166 0245 2 IF .ENTRY1 [SCT_PAGE] NEQ .ENTRY2 [SCT_PAGE] - 1
167 0246 2 THEN
168 0247 3 BEGIN
169 0248 3
170 0249 3 IF .ENTRY1 [SCT_PAGE] NEQ .ENTRY2 [SCT_PAGE] THEN RETURN FALSE;
171 0250 2
172 0251 2
173 0252 2
174 0253 1 RETURN TRUE;
END; !End of PAGMRG

```

.TITLE PAGMRG  
.IDENT \V04-0001

.EXTRN DSPEQL  
.PSECT \$CODE\$,NOWRT,2

ENTRY RAGMIRE SAW R3

MOVL ENTRY1, R2  
BEQI R6

TSTL	ENTRY2
BEQL	4S
MOVL	ENTRY2. R3
PUSHR	#^M<R2,R3>
CALLS	#2. DSPEQL
BLBC	R0, 4S
XORB3	(R2), (R3), R0
BITB	R0, #15
BNEQ	4S
CMPL	4(R2), 4(R3)
BNEQ	4S
TSTW	2(R2)
BEQL	1S

PAGMRG  
V04-000

E 3  
16-Sep-1984 01:26:01  
14-Sep-1984 13:07:42  
VAX-11 Bliss-32 V4.0-742  
[RUNOFF.SRC]PAGMRG.BLI;1

Page 5  
(2)

	08	A3	08	A2	D1	00032	CMPL	8(R2), 8(R3)		0232
	50		02	A3	3C	00037	BNEQ	4\$		0234
50	02	A2	10	50	D7	0003D	MOVZWL	2(R3), R0		
				00	ED	0003F	DECL	R0		
				19	13	00045	CMPZV	#0, #16, 2(R2), R0		
			02	A3	B1	00047	CMPW	2(R2), 2(R3)		0235
50	08	A3	02	10	11	0004C	BRB	2\$		
	50		08	A2	D1	0004E	SUBL3	#1, 8(R3), R0		0245
				07	13	00053	CMPL	8(R2), R0		
			08	A3	D1	00057	BEQL	3\$		
				04	12	00059	CMPL	8(R2), 8(R3)		0249
			50		00	00060	BNEQ	4\$		
				01	00	00063	MOVL	#1, R0		0252
				50	D4	00064	RET			
				04	00066	4\$:	CLRL	R0		0253
							RET			

; Routine Size: 103 bytes, Routine Base: \$CODE\$ + 0000

; 175 0254 1  
; 176 0255 1 END  
; 177 0256 0 ELUDOM !End of module

#### PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	103	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

#### Library Statistics

File	----- Symbols -----	Pages Mapped	Processing Time
	Total      Loaded      Percent		
\$_\$255\$DUA28:[SYSLIB]XPORT.L32:1	590      0      0	252	00:00.1

#### COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:\$PAGMRG/OBJ=OBJ\$:\$PAGMRG MSRC\$:\$PAGMRG/UPDATE=(ENH\$:\$PAGMRG)  
Size: 103 code + 0 data bytes

PAGMRG  
V04-000

PAGMRG -- Compare two page entries to see if th

F 3  
16-Sep-1984 01:26:01 VAX-11 Bliss-32 V4.0-742

Page 6

Run Time: 00:03.6  
Elapsed Time: 00:10.7  
Lines/CPU Min: 4290  
Lexemes/CPU-Min: 17145  
Memory Used: 50 pages  
Compilation Complete

0347 AH-BT13A-SE  
VAX/VMS V4.0

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